

Pushing the Envelope			
2009 Mathematics			
Content Standards			
Montana Mathematics			
Grades 5-8			
Activity/Lesson	State	Standards	
Types of Engines ( pgs. 11-23)	MT	MA.5-8.3.4	Measure and compute angles, perimeter, area, surface area, and volume including the use of formulas and choosing appropriate units.
Chemistry (pgs. 25-41)	MT	MA.5-8.3.4	Measure and compute angles, perimeter, area, surface area, and volume including the use of formulas and choosing appropriate units.
Physics and Math (pgs. 43-63)	MT	MA.5-8.1.6	Understand and apply proportional relationships to model real world situations and to solve problems involving rates, ratios, proportions, percents, and direct variation.
Physics and Math (pgs. 43-63)	MT	MA.5-8.3.4	Measure and compute angles, perimeter, area, surface area, and volume including the use of formulas and choosing appropriate units.
Rocket Activity (pgs. 69-75)	MT	MA.5-8.3.4	Measure and compute angles, perimeter, area, surface area, and volume including the use of formulas and choosing appropriate units.
Pushing the Envelope			
2009 Mathematics			
Content Standards			
Montana Mathematics			
Grades 9-12			
Activity/Lesson	State	Standards	
Physics and Math (pgs. 43-63)	MT	MA.9-12.1.5	Identify givens and unknowns in familiar and unfamiliar situations (e.g., finance, culture, including Montana American Indians, and nature) and describe relationships between variables.
Physics and Math (pgs. 43-63)	MT	MA.9-12.4.1	Represent functions in a variety of ways including tables, graphs or diagrams, verbal descriptions, and symbolic expressions in recursive and explicit form. Justify the choice of an appropriate form for solving a given problem.
Physics and Math (pgs. 43-63)	MT	MA.9-12.4.4	Analyze the effects of transformations on families of functions and recognize their characteristics. Represent and use functions in equivalent forms to identify and perform transformations.